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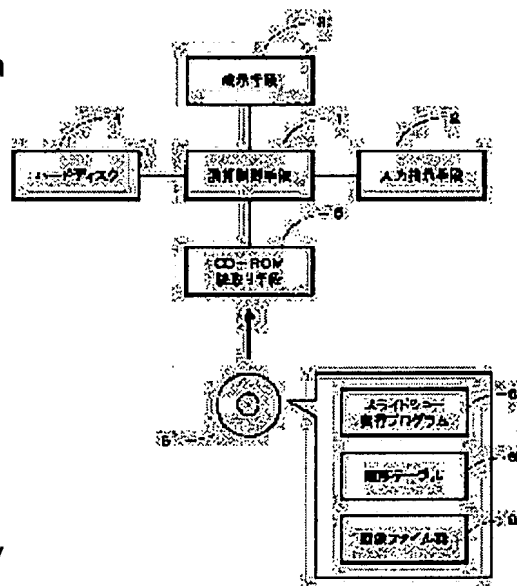| (21)Application number : 11-276948 | (71)Applicant : DAINIPPON PRINTING CO LTD |
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(54) SLIDE SHOW DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a device that freely decides sequence of images separately stored in a plurality of files to conduct a slide show.

SOLUTION: When a CD-ROM 6 is set to a CD-ROM read means 6 and an entry instruction means gives a start instruction of a slide show execution program 6a to the means 6, an arithmetic control means 1 reads the slide show execution program 6a to act as a slide show execution means. In the case of executing a slide show, the arithmetic control means 1 first reads a sequence table 6b to extract an image file defined in the sequence table 6b from an image file group 6c and allows a display means 3 to display the image.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Industrial Application] Using the image currently separated and recorded on multiple files, this invention determines sequence freely and relates to the slide show equipment which can perform a slide show.
[0002]
[Description of the Prior Art] The slide show which changes a projection image and goes is known by projecting conventionally the photographic film set to the projector on a screen, and exchanging photographic films. Recently, a slide show will be performed by the program, if it is possible to perform such a slide show using a computer and the software of dedication and a slide image and its display order are set up beforehand.
[0003]
[Problem(s) to be Solved by the Invention] However, in the system which performs a slide show by the above software, since they are recorded in the form of one file, all the slide images used by one slide show change the sequence of a slide image, or they must re-create an image file from the start to choose only a required slide image out of all slide images, and perform a slide show. Therefore, even if it thinks that he wants to perform a slide show using the image file which has already existed, it must stop having had to rerecord many images on one image file, and huge time and effort and time amount are required. In view of the above points, this invention makes it a technical problem to offer the equipment which the sequence of the image currently separated and recorded on multiple files is determined freely, and can perform a slide show.
[0004]
[Means for Solving the Problem] In order to solve the above-mentioned technical problem, in invention according to claim 1 The display means which can display a slide image, and the storage means which memorized two or more image files, It has the sequence table which defined the sequence on which two or more images are displayed in a slide show. It is characterized by performing a slide show, as said image file is read from said storage means according to the sequence defined as the sequence table and it is made to display on said display means. In invention according to claim 1, since the program which performs a slide show referred to the sequence table which did not read a direct image file but defined the display order of the image file in a slide show when performing a slide show, a new sequence table is only created to the existing image file, and it becomes possible to perform the slide show of the display order of arbitration, without adding no hand to an image file.
[0005] It is characterized by creating the sequence table for extracting the image recorded on two or more image files in invention according to claim 2, respectively, choosing the image which displays said extracted image as a candidate image, and uses it for a slide show among the displayed candidate images, setting up the display order, and performing a slide show according to the set-up sequence. In invention according to claim 2, display as a candidate for using two or more images for a slide show, and the image actually used for a slide show out of it is chosen. Since that sequence is set up and the

sequence table was created according to the set-up sequence, it becomes possible by using this sequence table to choose only the image which he wants to use from huge image files, and to perform a slide show in order of arbitration.

[0006] The candidate image selection field where a candidate image is displayed on the display means in invention according to claim 2 for every theme in invention according to claim 3, The sequence setting field which sets up the display order of an image which performs a slide show is displayed. By choosing a candidate image in a candidate image selection field, and specifying the display order in a sequence setting field using a means to set up the display order in invention according to claim 2 It is characterized by displaying the selected image on a sequence setting field together with the order of a slide display. Since it made have the field which displays the image which chose as the field which displays a candidate image, and the sequence of performing a slide display by specifying the display order of the selected candidate image side by side on the screen of a display means in the case of the creation of a sequence table which defined the sequence of the image for performing a slide show by invention according to claim 3, selection of a user's image becomes easy in the case of sequence table creation.

[0007]

[Embodiment of the Invention] Hereafter, the suitable operation gestalt of this invention is explained to a detail with reference to a drawing. Drawing 1 is the hardware configuration Fig. of the slide show equipment by this invention. For an input directions means and 3, as for a hard disk and 5, in drawing 1 , a display means and 4 are [1 / an operation control means and 2 / a CD-ROM read means and 6] CD-ROMs.

[0008] The slide show equipment shown in drawing 1 is actually realized by a computer and its peripheral device. The operation control means 1 is realized by CPU and memory, and, specifically, the whole operation control is performed by performing the program read into memory. The input directions means 2 is realized by a mouse and the keyboard. As a display means 3, a CRT display, a liquid crystal display, etc. are applicable. A hard disk 4 can save various data if needed. The CD-ROM read means 5 can apply the usual CD-ROM reader. CD-ROM6 is recording slide show executive program 6a, sequence table 6b, and image file group 6c.

[0009] Next, processing actuation of the slide show equipment shown in drawing 1 is explained. Here, the case where the image currently recorded in the form of 1 image 1 file is used as a slide image is explained. When CD-ROM6 is set to the CD-ROM read means 5 and the input directions means 2 performs activation directions of slide show executive program 6a, slide show executive program 6a is read from CD-ROM6, will be read into the memory of the operation control means 1, and will be performed, and the equipment shown in drawing 1 will function as slide show equipment. By reading slide show executive program 6a, the operation control means 1 functions as a slide show activation means, and reads sequence table 6b. Here, an example of such a sequence table is shown in drawing 2 (a). The sequence of the image which displays in a slide show is defined as the sequence table. The example of drawing 2 (a) shows displaying the image of the "file 01" in the "drugs data" folder of the "D" drive (here, CD-ROM6 is shown.) first. The image to display will also be specified, if a file is specified when one image is the format of one file. An image file is read, image data is extracted from the image file, and it is made to display on the display means 3 from image file group 6c according to the sequence indicated by such sequence table 6b. The carbon button for progressing to the slide image of order with a slide image is displayed on the display means 3. If cursor is doubled with one of carbon buttons with a mouse and it clicks, the operation control means 1 will recognize which carbon button was clicked approximately, will extract the image file which corresponds with reference to a sequence table from image file group 6c in CD-ROM6, and will display the image on the display means 3.

[0010] As mentioned above, by preparing sequence table 6b and making it a configuration which extracts an image file through a sequence table in the case of activation of a slide show apart from an image file, a setup in a sequence table is only changed and the contents of the slide show can be changed into the image file which already exists, without adding a hand. The procedure which newly creates a sequence table is explained below.

[0011] The hardware configuration Fig. of the slide show table edit equipment for creating a new sequence table to <u>drawing 3</u> is shown. It is the configuration same as a hardware configuration as the slide show equipment shown in <u>drawing 1</u>, and a computer and its peripheral device realize actually. In <u>drawing 3</u>, it is shown that the thing of the same sign as <u>drawing 1</u> is what has a function equivalent to each component shown in <u>drawing 1</u>. In <u>drawing 3</u>, differing from <u>drawing 1</u> is the point that CD-ROM6 has 6d of editor programs.

[0012] Next, processing actuation of the slide show table edit equipment shown in <u>drawing 3</u> is explained. First, if the input directions means 2 performs activation directions of 6d of editor programs, 6d of editor programs will be read into the memory within the operation control means 1, and the whole equipment shown in <u>drawing 3</u> will come to function as slide show table edit equipment. Moreover, the operation control means 1 which read 6d of editor programs will function as a sequence table edit means. Then, the operation control means 1 reads the image file of image file group 6c in CD-ROM6, extracts image data, and is made to display it on the display means 3. The appearance of the screen of the display means 3 at this time is shown in <u>drawing 4</u>. < -- A HREF -- = -- " -- /-- Tokujitu/tjitemdrw . -- ipdl?N -- 0000 -- = -- 237 -- & -- N -- 0500 -- = -- one -- E_N -- /--; -- > -- < -- > -- ? -- < --; -- > -- : -- /-- /-- /-- & -- N -- 0001 -- = -- 729 -- & -- N -- 0552 -- = -- nine -- & -- N -- 0553 -- = -- 000006 -- " -- TARGET -- = -- "tjitemdrw" -- > -- <u>drawing 4</u> -- physic -- relation -- a product -- a presentation -- carrying out -- a case -- an example -- being shown -- ****. The screen is roughly divided into two, left-hand side serves as the candidate image selection field 401, and right-hand side serves as the sequence setting field 402. 403 is a theme tag and is displayed in the folder unit recorded in CD-ROM6. The example of <u>drawing 4</u> shows the condition of having chosen "drugs data" among six theme tags, such as selectable "drugs data" and a "clinical trial." Selection of a theme tag performs a display in the image by which the card which has the selected theme tag comes to a front face. Among drawing, 404 are the candidate image display column and the image data of the image file stored in the folder of a mark theme name is displayed. In <u>drawing 4</u>, the image is displayed, and that to which it adds shading among the candidate image display columns 404 shows the condition that seven images were displayed, while even a maximum of 16 image can display. That is, in the example of <u>drawing 4</u>, the folder "drugs data" exists in image file group 6c, and it is shown that the "drugs data" folder had seven image files. Since the image displayed on the candidate image selection field 401 of the screen of drawing 4 and the sequence setting field 402 is comparatively small, the small thumbnail image of the amount of data is displayed in fact.

[0013] Five setting image display columns 405 are displayed on the sequence setting field 402 on the right-hand side of a screen. The figure in the left-hand side of each setting image display column 405 shows the display order at the time of performing a slide show. In such a screen, using the input directions means 2, an operator chooses one image of the candidate image display column 404, and sets it as either of the setting image display columns 405. Using a mouse etc., according to the candidate image display column 404 of a request of cursor, it dragging and dropping and, specifically, this is performed by [so-called] doubling with the desired setting image display column 405. In <u>drawing 4</u>, the condition that four images were set to the sequence setting field 402 is shown, and as it is, when it determines, in a slide show, four images will be displayed sequentially from a top. Moreover, the image set as the location of sequence 3 and 4 when another candidate image is inserted on the way, for example, when it was set as the location of the sequence 3 of the sequence setting field 402 in the example of <u>drawing 4</u> is carried down automatically in the location of sequence 4 and 5, respectively. When a setting image becomes six or more, the sequence setting field 402 can be scrolled. moreover, selection of an image is restricted to one theme -- not having -- "a clinical trial" -- "-- others -- an image is chosen to another theme freely [data" etc.], and a setup of sequence is attained.

[0014] If cursor is clicked according to the preservation carbon button 406 with a mouse, the operation control means 1 will create new sequence table 4b for performing a slide show in the sequence set as the sequence setting field 402. Newly created sequence table 4b is shown in <u>drawing 2</u> (b). As shown in <u>drawing 2</u> (b), the table of the sequence which crossed the folder currently recorded in the sequence set up in the screen of <u>drawing 4</u> is created. Created sequence table 4b is saved at a hard disk 4. Moreover,

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slide show executive program 6a in CD-ROM6 is also copied to coincidence, and it is saved in a hard disk 4 as slide show executive program 4a. At this time, slide show executive program 4a is rewritten by setup which refers to sequence table 4b.

[0015] If starting directions are performed to slide show executive program 4a in a hard disk 4 using the input directions means 2 when performing a slide show according to newly created sequence table 4b, slide show executive program 4a will be read by the operation control means 1, and the operation control means 1 will function as a slide show activation means. With reference to sequence table 4b in a hard disk 4, the operation control means 1 reads the image file in image file group 6c in CD-ROM6, extracts image data, and is made to display it on the display means 3.

[0016] It is effective to create a new sequence table with the equipment shown in drawing 3 , when only required image data tends to be extracted from image data with especially huge drug information etc. and it is going to perform an original slide show.

[0017] Although the image of the image file group 6 in CD-ROM6 is read and it was made to make it display on the display means 3 with the above-mentioned operation gestalt when a slide show was performed using newly created sequence table 4b, the image file registered into new sequence table 4b is copied, and you may make it save as image file group 4c at a hard disk 4. To perform a slide show by doing in this way according to sequence table 4b, CD-ROM6 becomes unnecessary. However, in this case, in order that the preservation part of an image file may replace, sequence table 4b must be rewritten. For example, when image data is registered by the new file name into a hard disk 4, sequence table 4b of drawing 2 (b) is rewritten like drawing 5 . Sequence table 4b of drawing 5 shows what is displayed from the "file 01" in the "C" drive (here, a hard disk is shown.).

[0018] Moreover, although the above-mentioned operation gestalt explained the case of the file format by which one image is recorded on one file, it is possible to apply also about the file format by which two or more images are recorded on one file. In this case, it is necessary to make it pass the pass information on each image which the image file has managed to a sequence table. Thereby, it enables a sequence table to manage the image according to individual in an image file directly. For example, as shown in drawing 6 (a), when two or more images are recorded on the file "drugs data", as shown in drawing 6 (b), creation of a new sequence table is attained in the sequence which crossed the file.

[0019] With the slide show table edit equipment shown in drawing 3 , it has various addition functions for it not only setting up sequence, but extracting the image only used out of a candidate image, and supporting this. One is the function which gives keyword information to the image file beforehand, inputs a keyword using the input directions means 2, searches, puts in order and is displayed as shown in drawing 4 by using the image data of the appropriate image file as a candidate image. [two or more] Thus, the displayed candidate image is registered into a sequence table by being chosen like **** and carrying out a sequence setup.

[0020] Moreover, the slide show table edit equipment shown in drawing 3 also has the function to perform simulation of a slide show to the sequence setting field 402 of the screen of drawing 4 before creation of sequence table 4b using the image by which a sequence setup was carried out. In this case, if activation directions of simulation are performed from the input directions means 2, slide show executive program 6a will be read into the operation control means 1, and will display a slide image according to the sequence table by which temporary creation was carried out in the operation control means 1. If satisfactory as a result of simulation, the preservation carbon button 406 of the screen of drawing 4 will be clicked with a mouse, and sequence table 4b will be created.

[0021]
[Effect of the Invention] As mentioned above, it becomes possible to perform the slide show of the display order of arbitration, without only creating a new sequence table to the existing image file, and adding no hand to an image file, since the sequence table the program which performs a slide show defined the display order of the image file in a slide show rather than read a direct image file was referred to according to this invention when performing a slide show as explained.

[0022] Moreover, since display as a candidate for using two or more images for a slide show, the image actually used for a slide show out of it is chosen, the sequence is set up and the sequence table was

created according to the set-up sequence By using this sequence table, it becomes possible to choose only the image which he wants to use from huge image files, and to perform a slide show in order of arbitration.

[0023] Furthermore, since it made have the field which displays the image chosen as the field which displays a candidate image, and the sequence of performing a slide display by specifying the display order of the selected candidate image side by side on the screen of a display means in the case of the creation of a sequence table which defined the sequence of the image for performing a slide show, selection of a user's image becomes easy in the case of sequence table creation.

[Translation done.]